MAP EXPLANATION

Faults mapped by Chesterman (1975) and Chesterman and Gray (1975), dashed where approximately located, dotted where concealed.

Faults mapped by Dohrenwend (1982a)

Mapped faults are limited to those faults which by stratigraphic evidence can be shown to be Quaternary or by geomorphic evidence can be inferred to be Quaternary and (or) late Tertiary. In Quaternary deposits, fault traces are shown as solid lines only where offset of Quaternary deposits can be demonstrated. Fault traces forming contacts between bedrock and Quaternary units are shown as solid lines only where offset of the Quaternary deposits can be demonstrated or where Quaternary movement is suggested by the morphology of the bedrock scarp. Elsewhere, fault traces in or bounding Quaternary deposits are shown as dotted lines. In bedrock, faults are mapped where the morphology of the fault trace suggests Quaternary and (or) late Tertiary movement or where fault traces can be related to faults that offset or bound Quaternary deposits. Fault traces in bedrock are solid where known, dashed where inferred

Faults mapped by Dohrenwend & Brem (1982)

Dashed where inferred in bedrock; dotted where concealed by Quaternary deposits. Fault traces forming contacts between bedrock and Quaternary units are mapped as solid lines where Quaternary movement is suggested by morphology of bedrock scarp. Faults in bedrock are mapped only where morphology of fault trace suggests Quaternary and(or) late Tertiary movement or where fault traces can be related to faults that offset or bound Quaternary deposits

Faults mapped by Envicom (1976), dashed where approximately located, dotted where concealed or inferred.

Faults mapped by Kistler (1966), dashed where approximately located, dotted where concealed. Ball & bar on downthrown block.

(2) Locality referred to in text and Table 1.

Figure 2 (to FER-155). Faults in the FER study area based on available mapping by others. Annotations are selected data from the work of others and air photo interpretation by Bryant (this report).

SCALE 1:62500

CONTOUR INTERVAL 80 FEET
DOTTED LINES REPRESENT 40-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

KEY TO FAULT NAMES

(1) Robinson Creek flt. z.
(2) Western Bridgeport Valley flt. z.
(3) Central Bridgeport Valley flt. z.
(4) Eastern Bridgeport Valley flt. z.
(5) Southern Bridgeport Valley flt. z.
(6) Hunewill Hills flt. z.
(7) Bridgeport Reservoir flt. z.
(8) Mono Lake flt. z.
(9) Fault A
(10) Fault B
(11) Fault C

Qls deposits not offset Qls probably Pleistocene because of dissected, non-constructional form

no geomorphic evidence of recent faulting

linear ca

arcuate E-facing escarpment - Qls?

Pleistocene alluvium not offset (Dohrenwend & Brem, 1982)

late Tertiary to Quaternary gravels offset (Dohrenwend & Brem, 1982)

+ - bedrock - Quaternary gravel etc. - fault, but no evidence of recency

late Pleistocene to Holocene alluvium not offset (Dohrenwend & Brem, 1982)

late Pleistocene to Holocene alluvium not offset (Dohrenwend & Brem, 1982)

no geomorphic evidence for recency - this dissected escarpment probably stream-cut terrace

late Pleistocene to Holocene alluvium offset (Dohrenwend & Brem, 1982)

older alluvial fan deposits (Pleistocene) offset (Dohrenwend & Brem, 1982)

Dohrenwend (1982a) does not map fault along west side of Bridgeport Valley north of Big Day Creek. Dohrenwend (1982b) indicates Robinson Crk flt. is a major range-front flt. and mapped it - mapped apart on sec. 35, T5N, R23E

Holocene alluvium offset (Dohrenwend & Brem, 1982)

alluvium not offset (Envicom, 1976)

fault of Dohrenwend (1982a) in Mesozoic granitic and Miocene volcanic rks mapped by Stewart (1967)

late Pleistocene to Holocene alluvium not offset (Dohrenwend, 1982a)

late Pleistocene to Holocene alluvium not offset (Dohrenwend & Brem, 1982)

faulted bedrock (Dohrenwend & Brem, 1982)

Tahoe moraine offset (Envicom, 1976)

Tahoe glacial deposits not offset (Chesterman, 1975)

Tahoe glacial deposits offset (Envicom, 1976)

Tenaya glacial deposits not offset (Chesterman, 1975; Envicom, 1976)

Tioga glacial deposits not offset (Chesterman, 1975)

late Pleistocene to Holocene alluvium faulted against Tahoe moraine (Dohrenwend, 1982)

late Pleistocene to Holocene alluvium offset (Dohrenwend, 1982a)

Hunewill Hills moraine (Dohrenwend, 1982a)

not well defined

not well defined alluvium offset

not well defined

alluvium not offset (Envicom, 1976)

Sherwin till not offset (Chesterman, 1975)

fault in Miocene volcanic rks mapped by Stewart, et al. (1983)

fault concealed by Holocene alluvium - dashed line indicating offset alluvium not confirmed by Bryant (this report) - possible drafting error?

Sherwin glacial deposits not offset (Chesterman & Gray, 1975)

late Pleistocene to Holocene alluvium not offset (Dohrenwend, 1982a)

middle to lower Pleistocene glacial deposits offset (Dohrenwend, 1982a)

older (middle to early Pleistocene) glacial deposits offset (Dohrenwend, 1982a)

poorly defined scarp

saddle

scarp ? t

fault concealed by Holocene alluvium (Chesterman & Gray, 1975)

fault concealed by Sherwin-stage till (Chesterman & Gray, 1975) & Dohrenwend (1982a)

faulted bedrock (Mesozoic & pre-Mesozoic) (Chesterman & Gray, 1975)

late Pleistocene to Holocene alluvium offset (Dohrenwend, 1982a)

undifferentiated late Pleistocene lateral moraine offset (Dohrenwend, 1982a) Clark, et al (1983) consider moraine to be Tioga stage

faulted post-Tioga lake deposits (Chesterman & Gray, 1975)

Tahoe moraine offset (Chesterman & Gray, 1975) Location of this traces not verified by Bryant (this report)

fault concealed by post-Tioga-stage lake deposits (Chesterman & Gray, 1975)

late Pleistocene to Holocene lake deposits conceal fault (Dohrenwend, 1982a)

fault concealed by post-Tioga stage lake deposits (Kistler, 1966)

Envicom (1976) observed abrubt lithologic change in roadcut where Tahoe moraine exposed. Field ck by Bryant (8-83) and Hart & Bryant (9-83) failed to confirm fault exposure. Lake bed & outwash and deltaic deposits are interbedded. Refer to fig. 3 for air photo interpretation by Bryant (this report)

fault concealed by Tahoe till (Kistler, 1966)

Holocene alluvium not offset (Dohrenwend, 1982a)

Holocene playa deposits not offset (Dohrenwend, 1982a)

low, west-facing scarp in bedrock

? ? low, w-facing scarp in bedrock

Pleistocene older gravels offset (Dohrenwend, 1982a)

Pleistocene older gravels not offset (Dohrenwend, 1982a)

vague ? - not well defined - alluvium probably very shallow + may be a delineation of faulted bedrock at shallow depth

Holocene alluvium offset (Dohrenwend, 1982a)

eroded, E-facing scarp in volcanic bedrock

Fales Hot Springs
Matterhorn Peak
Buckeye Hot Springs
Bogards Camp
Honeymoon Campground
Robinson Creek Campground
Twin Lakes Campground
Green Creek Campground
Dunderberg Mill
Dunderberg Peak
Mt Olsen
Mt Warren
Lee Vining Peak
Mono Dome
Conway Summit
Conway Ranch
Mormon Ranch
Mormon Meadow
Bridgeport
Bodie
Mono Craters
Paoha Island
Negit Island
Black Point
Danburg Beach
Goat Ranch
Dechambeau Ranch
Hector Sta
Williams Butte
Lower Horse Meadow
Upper Horse Meadow
Pumice Creek
Panum Crater
Sugarloaf
Bodie Bluff
Silver Hill
Red Cloud Mine
Masonic
Aurora
Locomotive Point
Rainbow Point
Bridgeport Reservoir
Bridgeport Ranger Station
Bridgeport Valley
Point Ranch
Willow Springs
Little Mormon Meadow
Little Bodie Mine
Lundy
Lundy Lake
Twin Lakes
Upper Summers Meadows
Lower Summers Meadows
Hunewill Hills
Sinnamon Meadow
Rancheria Gulch
Big Alkali
Tamarack Lake
Hunewill Lake
Gilcrest Peak
Monument Ridge
Kavanaugh Ridge
Eagle Ridge
Sawmill Ridge
Virginia Lakes
Twin Lakes
Mono Lake